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HIGH TORQUE POWER ENGINE (HTPE) MODIFIED 1-WAY CLUTCH

BACKGROUND OF THE INVENTION

This invention is an improvement to my invention titled, "High Torque Power Engine that Transmits Motion between a Piston and Power Shaft Through a 1-Way Clutch" (HTPE).

BRIEF SUMMARY OF THE INVENTION

The outer race of the 1-way clutch needed for the HTPE reciprocates while its inner race rotates 360°. This invention describes the outer race rim that is less than 360°. An object of this invention is material savings. A second object is to reduce inertia, which saves fuel.

BRIEF DESCRIPTION OF THE DRAWINGS

FIG 1 is a side view of the modification.

DETAILED DESCRIPTION OF THE INVENTION

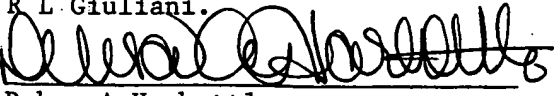
The parts' numerals shown in FIG 1 are the same as those in the HTPE disclosure. The connecting rod 18 has a rack gear which meshes with the pinion on outer race 5. The cover plate 89 is for the motion transmitting members detailed in the HTPE disclosure. Snap rings prevent the outer race from moving axially on the power shaft 8. The sector gear 12 meshes with an idler as shown in the HTPE disclosure.

The inner race 4 rotates 360°.


R.L. GIULIANI

State of Hawaii)
City and County of Honolulu) ss:

Subscribed and sworn to before me
this 9th day of June 2003 by
R. L. Giuliani.

68 
Debra A Harbottle
Notary Public, State of Hawaii
My Commission Exp: June 17, 2006